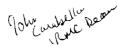
DEPARTMENT OF DEFENSE CORPORATE INFORMATION MANAGEMENT



AGENDA

- Concepts of CIM Doctrine
- The Business Case: Financial Concepts and Issues
- The Business Case Model

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PURPOSE

Provide an introduction to:

- Corporate Information Management (CIM) principles and objectives
- Effective management in the CIM environment

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CORPORATE INFORMATION MANAGEMENT

- Part of presidential effort to improve management of DoD
- One management method for achieving DMR cost reductions
- An enabler for many DMR initiatives

DoD IN THE YEAR 2000 VISION OF THE FUTURE

- Downsized Force Structure
- Refocused Defense Posture
- Streamlined Business Operations
- Simplified Business Methods
- Integrated Business Processes

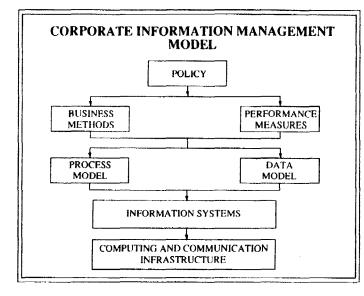
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OBJECTIVE Dod Corporate information management

"The primary objective of CIM is business process improvement. The role of information technology is supportive and allows the adoption of more efficient and effective business area management practices."

DoD Corporate Information Management, April 1991, p.2.

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PRINCIPLES Dod Corporate information management

- Centralized direction of functional methods; decentralized execution
- · Decisions based on business case analysis
- Centralized guidance for application of standard information technology
- Risk management through evolutionary migration of existing systems
- · Benchmarking against best accepted methods

POLICY DoD CIM MODEL

- Guiding principles and operating fundamentals that determine direction
- Represent choices among alternatives
- Frame business methods and business performance measures

What is the goal of our business?

BUSINESS METHODS DoD CIM MODEL

- Defines the way business is to be done
- The goal is simpler, integrated business methods

How do we want to do business?

PERFORMANCE MEASURES DoD CIM MODEL

- Provide framework for evaluating effectiveness and efficiency of an organization's business methods and resulting operations
- Permit comparative evaluations and provide insights

How do we judge how well we do business?

PROCESS MODEL DoD CIM MODEL

- Document business methods by graphically describing activities and their relationships, linkages, and dependencies
- Required for each primary corporate function

What will the activities of our business be?

DATA MODEL DOD CIM MODEL

- A representation of the data necessary to execute the business methods
- Formally define the terms used in a business method and their relationships, linkages, and dependencies
- · Captured in the data dictionary

What will we need to know to do business?

PROCESS AND DATA MODELS DOD CIM MODEL

- · Facilitate functional integration
- Facilitate simplification of business methods
- Provide a stable platform upon which to build information systems
 - Facilitate data sharing
 - Facilitate systems integration
 - Simplify system design
 - Reduce system maintenance

INFORMATION SYSTEMS Dod CIM MODEL

- Implement business methods and performance measures
- Process and data models must be completed before information systems can be developed and integrated
- May be common system or unique system

How can technology help do business?

THE INFRASTRUCTURE: COMPUTING & COMMUNICATIONS Dod CIM MODEL

- Combines computers and communications into a comprehensive "information utility"
- Provides the means to create and leverage knowledge
- · Includes core and end user facilities
- · Allows widespread data sharing

What information technology will support our business?

IMPLICATIONS

- Functional leadership
- Merging of business planning/information planning
- Business process and information technology integration
- Functional integration
- Data/information sharing
- Focus on business first, technology second

FUNCTIONAL LEADERSHIP ROLE

- Determine business goals
- Define business methods and processes
- Establish and implement business measures of performance
- Document business processes

FUNCTIONAL LEADERSHIP ROLE (Continued)

- · Establish information standards
- Identify and prioritize information system requirements
- Develop information plan
- · Make the business case

BUSINESS CASE CORPORATE INFORMATION MANAGEMENT

- Provides a uniform basis for analysis and comparison of alternatives
- Assures that action will improve management of the Department while making sound economic sense
- Supports the decision making process

INTRODUCTION TO ACCOUNTING, FINANCE, & THE BUSINESS CASE

"Because of the difficulties in goal-setting and measurement, I have concluded that unless an information technology has measurable financial outcomes, the clarity of its goals is questionable."

Paul A. Strassmann, The Business Value of Computers, p. 74.

TOPICS

- Cost accounting
- Financial concepts
- DoD considerations & application
- Business case analysis
- · Business case model

COST ACCOUNTING

- Typical classifications
- Direct/indirect
- Fixed/variable
- Controllable/non-controllable
- Overhead

FINANCIAL CONCEPTS

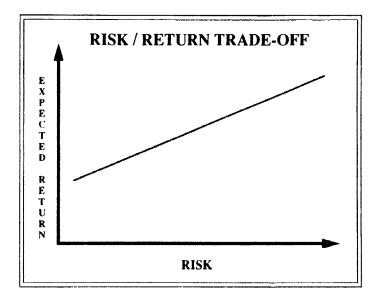
- Capital budgeting
- Time value of money
- Risk / return trade-off
- Discount rate
- Present value & net present value
- Residual value

CAPITAL BUDGETING

A method used for evaluating, comparing, and selecting projects to achieve the best long-term financial return.

TIME VALUE OF MONEY

- Factors:
- Inflation
- Risk
- Preference for liquidity
- Equates to earning interest choice between spending now or investing for the future.

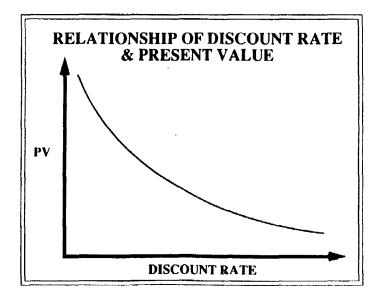


DISCOUNT RATE

- Adjustment for risk and time
- Interest rate applied to future cash flows to determine present value.
 - High risk = high discount rate
- Low risk = low discount rate
- Longer time = higher discount rate
- Shorter time = lower discount rate

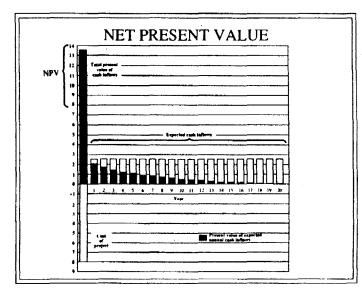
PRESENT VALUE

- Value today of future cash flows discounted at some compound interest—or discount-rate.
- Provides basis for comparing profitability of different projects over a number of years.
- Widely used to measure return on a capital investment project.



NET PRESENT VALUE ANALYSIS (Discounted Cash Flow Analysis)

- 1. Identify proposal and at least one alternative.
- 2. Estimate cash flows, year by year, that would result from project approval.
- 3. Determine net present value of estimated cash flows (cash inflows minus cash outflows).
- 4. Choose alternative with the highest net present value.



CRITICAL NET PRESENT VALUE QUESTION

Is it worthwhile for me to invest funds today

(in buildings, equipment, research, etc.)

considering the returns that I can expect to

realize in the future of this investment?

RESIDUAL VALUE

- Value Beyond planning period
- Current DoD policy is set percentage of investment

DoD CONSIDERATIONS & APPLICATION

- · Budgetary accounting
- · Financial data sources
- Fee-for-service
- Unit cost
- Performance-based budgeting
- · Business case

BUSINESS CASE

- A comprehensive assessment of the economic factors
- Applies to decisions involving
 - Proposed and existing business methods
 - Current and proposed information technology
- Includes benchmarking against the best accepted practices in both the private and public sectors

BUSINESS CASE

- Quantifies costs, benefits, and risks
- · Compares alternatives to baseline
 - Baseline: business as usual
 - Alternative: management initiative leading to savings
- Baseline includes only business that is subject to change
- Provides one major input to decision makers



THE BUSINESS CASE MODEL

- Prototype
- Evolutionary
- PC-based
- User friendly/menu driven
- Completes net present value analysis
 - Discounts cash flows and adds residual value
 - Compares aternatives to baseline
- Conducts simulations

COST ELEMENT STRUCTURE

• Primary breakout

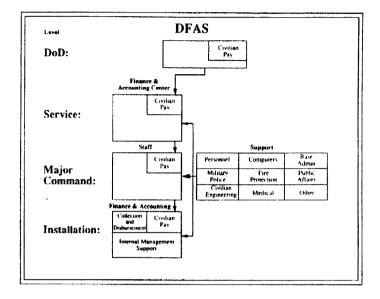
Primary breakout

Operations

Management and support

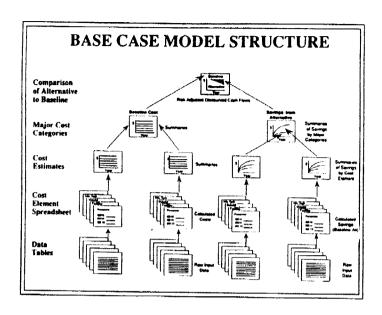
Other less to the cost

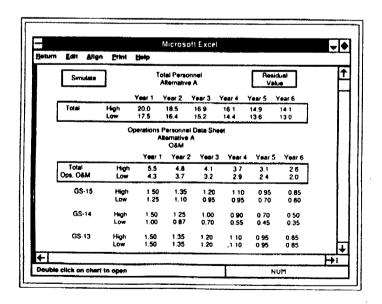
- Second level: proposed major breakouts
 - Personnel
 - Facilities
 - Information technology
 - Materials
 - Other
- Additional breakouts to be aligned with unit cost system

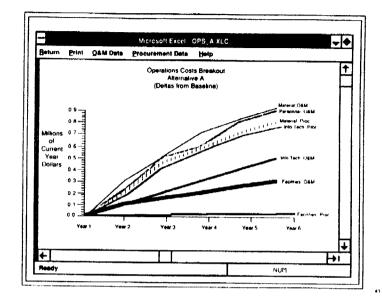


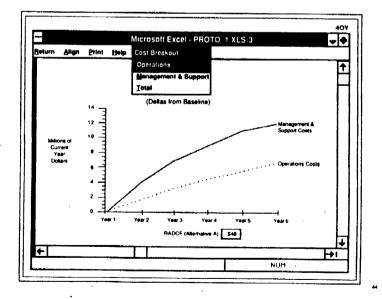
COST ISSUES

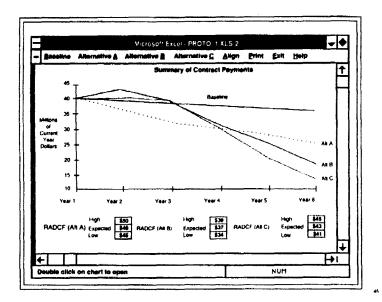
- Type of asset purchased: current of long-term
- Cost of Capital
- Traceability to output
- Management control
- Allocating management and support costs











HARD QUESTIONS FOR FUNCTIONAL MANAGERS

- What does your business really cost?
- What should your performance measures be?
- Can you fill in the data tables?

THE CHALLENGE

- · Assess current operations
- Develop alternatives
- Build the business case
- Justify current operations and improvements

NEXT STEPS

- Develop an understanding of the materials furnished in the reading package
- Begin to look at your individual operation from a CIM perspective
- Develop skills through classes at IRMC and other sources